PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 :
C12Q 1/68, G01N 33/53, C12P 19/34, C12N 5/00, G01N 33/566

A1

(11) International Publication Number: WO 00/26410

(43) International Publication Date: 11 May 2000 (11.05.00)

(21) International Application Number: PCT/US99/25653

(22) International Filing Date: 2 November 1999 (02.11.99)

(30) Priority Data:
60/106,857 3 November 1998 (03.11.98) US

(71) Applicant *(for all designated States except US)*: SAIGENE CORPORATION [US/US]; Suite C–104, 7126 180th Avenue N.E., Redmond, WA 98052 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: HAYDOCK, Paul, V. [US/US]; 19917 19th Avenue N.E. #A, Seattle, WA 98155 (US). RAY, Jason, D. [US/US]; 11541 Greenwood Avenue N. #B–1, Seattle, WA 98133 (US).

(74) Agents: SMITH, Timothy, L. et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111 (US).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: METHODS FOR PREVENTING CROSS–CONTAMINATION IN SOLID SUPPORT–BASED ASSAYS

(57) Abstract

This invention provides an apparatus and methods for reducing artifacts in assays that use a solid support by reducing carryover of reagents from one assay mixture to another. Examples of assay formats for which the invention is useful include sandwich assays, including nucleic acid hybridization assays and immunoassays.